

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	87	("3922412"   "4329162"   "4399052"   "4411856"   "4415344"   "4518704"   "4758272"   "4781831"   "4934142"   "4948567"   "4992233"   "5009781"   "5043310"   "5108601"   "5212140"   "5215690"   "5221484"   "5258150"   "5260035"   "5284638"   "5288306"   "5303547"   "5306675"   "5308457"   "5356852"   "5451444"   "5451554"   "5458834"   "5472676"   "5487917"   "5488023"   "5510063"   "5510599").PN. OR ("5750026").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:46
L2	5	("4846906"   "4857088"   "4857089"   "4912076"   "5041407").PN. OR ("7179430").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:46
L3	34	("4340403"   "4364760"   "4364761"   "4390355"   "4404007").PN. OR ("4857089").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:46
L4	30	("20020045541"   "20020180117"   "20030024219"   "20030093982"   "20030165662"   "20030167755"   "20040053005"   "20040161596"   "4276071"   "4364761"   "4416676"   "4417908"   "4420316"   "4428758"   "4643749"   "4857089"   "5089237"   "5098455"   "5396764"   "5519993"   "5545243"   "6149877"   "6395370"   "6669751"   "6673414"   "6764527"   "6843822"   "6849181"   "D477659"   "D483459").PN. OR ("D538911").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:46
L5	28	("3499269"   "3755534"   "3920404"   "4515758"   "4519820"   "4669261"   "5009857"   "5089237"   "5138836"   "5271906").PN. OR ("5519993").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:46
L6	170	L1 or L2 or L3 or L4 or L5	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:46
L7	2403563	membrane or layer or coating	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:46

## EAST Search History

L8	247150	pore or porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/24 09:47
L9	70224	7 with 8	US-PGPUB; USPAT	ADJ	ON	2007/04/24 09:48
L10	28	9 and 6	US-PGPUB; USPAT	ADJ	ON	2007/04/24 09:48
L11	28	10 and 8	US-PGPUB; USPAT	ADJ	ON	2007/04/24 10:09
L12	12	((("4276071") or ("4364761") or ("4329162") or ("4415344") or ("4416675") or ("4416676") or ("4417908") or ("4419108") or ("4293357") or ("4307198") or ("4340403") or ("4364760"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/04/24 10:10
L13	1901836	layer or coat or coating	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L14	3370533	size or diameter or width	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L15	195993	pore	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L16	94623	L15 near3 L14	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L17	167702	L16 or porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L18	27466	L17 with L13	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L19	3190	L18 same filter	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L20	207	L19 and (honeycomb)	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L21	118	L20 and diesel	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:45
L22	247150	pore or porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:31
L23	118	L21 and L22	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:32
L24	13	23 and formula	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:32
L25	101	porosity and 21	US-PGPUB; USPAT	ADJ	ON	2007/04/24 12:45
L26	7	("3896048"   "4001371"   "4268488"   "4291126"   "4742038"   "5075274"   "5154901").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 13:36

## EAST Search History

L27	14	("3896048"   "4001371"   "4268488"   "4291126"   "4742038"   "5075274"   "5154901").PN. OR ("5384110").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 15:57
L28	1456	porosity with surface with catalyst	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 15:57
L29	169	28 and diesel	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 15:57
L30	92	29 and filter	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 15:57
L31	65	30 and particulate	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 15:58
L32	3431704	greater or more than or finer or larger or smaller	US-PGPUB; USPAT	ADJ	ON	2007/04/24 17:14
L33	6552	32 near3 porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:17
L34	112	33 and (diesel with particulate with filter)	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:33
L35	1358	33 with (layer or coating or coat or membrane)	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:34
L36	135	35 same filter	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:34
L37	19	36 and diesel	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:43
L38	5172	pore size near5 porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:43
L39	590	38 with 32	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:44
L40	244	39 and filter	US-PGPUB; USPAT	ADJ	ON	2007/04/24 16:44
L41	95	40 and diesel	US-PGPUB; USPAT	ADJ	ON	2007/04/24 17:13
L42	435307	greater or more than or finer or larger or smaller	EPO; JPO	ADJ	ON	2007/04/24 17:14
L43	339	porosity near5 42	EPO; JPO	ADJ	ON	2007/04/24 17:14
L44	1	43 and diesel	EPO; JPO	ADJ	ON	2007/04/24 17:17
L45	42	43 and filter	EPO; JPO	ADJ	ON	2007/04/24 17:17
S4	25656	NGK.as.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2007/03/20 13:00

## EAST Search History

S5	25199	particulate near5 filter	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2007/03/20 13:00
S6	543474	exhaust or internal combustion engine	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2007/03/20 13:00
S7	23210	particulate near4 filter	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2007/03/20 13:02
S10	639562	catalyst or catalytic	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2007/03/20 13:05
S11	3004	S10 same S7	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2007/03/20 13:05
S12	96	S11 and S6 and S4	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2007/03/20 13:06
S13	11	("20020038536"   "4335783"   "4363644"   "5063029"   "5207807"   "5702508"   "5855781"   "5914187"   "6126833"   "6328777"   "6669751").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:21
S17	2016	422/177.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:22
S18	756	S17 and honeycomb	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:22
S19	144	S18 and S7	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:24
S20	51	S19 and porosity and pore	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:38
S21	28266	pore diameter	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:38
S22	1884048	thin or fine	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:38
S23	2598314	layer or film or coat or coating	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:39
S24	660140	S22 near4 S23	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:40

## EAST Search History

S25	6349	S24 with S10	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:10
S26	15	S25 same S7	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:41
S27	12	S26 and honeycomb	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 13:41
S28	10	("3767453"   "4102819"   "4399185"   "4483940"   "4572904"   "4702897"   "4749671"   "4919902"   "5346722"   "5776419").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:09
S29	553538	ceramic or alumina	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:10
S30	21093	S24 with S29	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:11
S31	3314065	carrier or carried	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:12
S32	58687	S31 near5 S10	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:12
S33	50862	S31 near4 S10	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:13
S34	75	S33 same S30	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:14
S36	969328	combust or oxidation or combustion or burn	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:17
S37	1044498	particulate or particle	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:17
S39	20735	S36 near4 S37	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:19
S40	200	S39 same S33	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:19
S41	146	S40 and exhaust	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:19

## EAST Search History

S42	41	S40 same ceramic	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/20 14:56
S43	6	"0160482"	US-PGPUB; USPAT; USOCR; EPO	ADJ	ON	2007/03/20 15:06
S44	35049	pore near2 diameter	US-PGPUB; USPAT; USOCR; EPO	ADJ	ON	2007/03/20 15:06
S45	123905	porosity	US-PGPUB; USPAT; USOCR; EPO	ADJ	ON	2007/03/20 15:06
S47	73522	"422".clas.	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:46
S48	36538	pore and porosity and diameter	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:48
S49	2344787	wall or partition or substrate	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:48
S50	1900539	layer or coat or coating	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:49
S51	1660034	pore or porosity or diameter	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:49
S52	28460	particulate with filter	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:49
S53	23526	S49 with S50 with S51	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:50
S54	566	S53 and S52	US-PGPUB; USPAT	ADJ	ON	2007/04/23 09:51
S55	69	S54 and S47	US-PGPUB; USPAT	ADJ	ON	2007/04/23 10:12
S56	17493	particulate near3 filter	US-PGPUB; USPAT	ADJ	ON	2007/04/23 10:14
S57	466629	S50 near4 S49	US-PGPUB; USPAT	ADJ	ON	2007/04/23 10:16
S58	210	S56 same S57	US-PGPUB; USPAT	ADJ	ON	2007/04/23 10:16
S59	34	S58 and S47	US-PGPUB; USPAT	ADJ	ON	2007/04/23 10:16
S60	22	("3954672"   "4276071"   "4390355"   "4509966"   "4857089"   "4985210"   "5089237"   "5164350").PN. OR ("5492679"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 10:34

## EAST Search History

S61	8	("4515758"   "4857089"   "4902487"   "5089237"   "5492679"   "5519993"   "5750084"   "5758496").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 10:44
S62	34	("4340403"   "4364760"   "4364761"   "4390355"   "4404007").PN. OR ("4857089").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 11:03
S63	39	("4364761").URPN.	USPAT	ADJ	ON	2007/04/23 11:33
S64	39	("20020066982"   "20020135107"   "20020175451"   "20030024220"   "20030161945"   "4041591"   "4200604"   "4276071"   "4293357"   "4340403"   "4364760"   "4364761"   "4403008"   "4411856"   "4417908"   "4420316"   "4427728"   "4432918"   "4455180"   "4509966"   "4522668"   "4557773"   "4557962"   "4559193"   "4573896"   "4643749"   "4662911"   "4759892"   "5021204"   "5062911"   "5194078"   "5198007"   "5332703"   "5364573"   "5433904"   "5720787"   "5766393"   "5846276"   "6251473").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 12:00
S65	23	porosity and S64	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 12:40
S66	1	"5198007".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 15:13
S67	2	2002/0178707	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 15:14
S68	1	"20020178707"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 15:24

## EAST Search History

S69	29	((("4041591") or ("4276071") or ("4293357") or ("4340403") or ("4364760") or ("4364761") or ("4403008") or ("4411856") or ("4417908") or ("4420316") or ("4427728") or ("4432918") or ("4455180") or ("4509966") or ("4522668") or ("4557773") or ("4557962") or ("4559193") or ("4573896") or ("4643749") or ("4662911") or ("4759892") or ("5021204") or ("5062911") or ("5364573") or ("5433904") or ("5720787") or ("5766393") or ("5846276"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/04/23 15:27
S70	92026	pore near2 (size or diameter)	US-PGPUB; USPAT	ADJ	ON	2007/04/23 15:27
S71	7	S69 and S70	US-PGPUB; USPAT	ADJ	ON	2007/04/23 15:28
S72	17	porosity and S69	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:44
S73	246999	porosity or pore	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:44
S74	19	S73 and S69	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:51
S75	3368351	size or diameter or width	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:52
S76	195872	pore	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:52
S77	94560	S76 near3 S75	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:52
S78	10950	S77 with S50	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:53
S79	167594	S77 or porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:53
S80	27448	S79 with S50	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:54
S81	982	S80 and S47	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:54
S82	3188	S80 same filter	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:55
S83	207	S82 and (honeycomb)	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:55
S84	118	S83 and diesel	US-PGPUB; USPAT	ADJ	ON	2007/04/23 16:56



## EAST Search History

S85	5	("4846906"   "4857088"   "4857089"   "4912076"   "5041407").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/23 17:26
S86	1901836	layer or coat or coating	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S87	3370533	size or diameter or width	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S88	195993	pore	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S89	94623	S88 near3 S87	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S90	167702	S89 or porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S91	27466	S90 with S86	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S92	3190	S91 same filter	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S93	207	S92 and (honeycomb)	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:35
S94	118	S93 and diesel	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:36
S95	247150	pore or porosity	US-PGPUB; USPAT	ADJ	ON	2007/04/24 07:37
S96	118	S94 and S95	US-PGPUB; USPAT	ADJ	ON	2007/04/24 08:51
S97	12	("3468989"   "4303552"   "4451441"   "4515758"   "4711870"   "4828807"   "4912076"   "4976760"   "5000929"   "5100632"   "5108977").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 07:50
S98	44	("4329162"   "4364760"   "4416675"   "4416676"   "4417908"   "4419108"   "4428758"   "4464185"   "4830749"   "4874516"   "4983423").PN. OR ("5114581").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 08:22
S99	34	S98 and S95	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 08:44
S100	86	porosity same pore same monolith same (layer or film or coating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 08:45
S101	118	S95 and S96	US-PGPUB; USPAT	ADJ	ON	2007/04/24 08:51

## EAST Search History

S10 2	87	("3922412"   "4329162"   "4399052"   "4411856"   "4415344"   "4518704"   "4758272"   "4781831"   "4934142"   "4948567"   "4992233"   "5009781"   "5043310"   "5108601"   "5212140"   "5215690"   "5221484"   "5258150"   "5260035"   "5284638"   "5288306"   "5303547"   "5306675"   "5308457"   "5356852"   "5451444"   "5451554"   "5458834"   "5472676"   "5487917"   "5488023"   "5510063"   "5510599").PN. OR ("5750026"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:38
S10 3	5	("4846906"   "4857088"   "4857089"   "4912076"   "5041407").PN. OR ("7179430"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:39
S10 4	34	("4340403"   "4364760"   "4364761"   "4390355"   "4404007").PN. OR ("4857089"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:40
S10 5	30	("20020045541"   "20020180117"   "20030024219"   "20030093982"   "20030165662"   "20030167755"   "20040053005"   "20040161596"   "4276071"   "4364761"   "4416676"   "4417908"   "4420316"   "4428758"   "4643749"   "4857089"   "5089237"   "5098455"   "5396764"   "5519993"   "5545243"   "6149877"   "6395370"   "6669751"   "6673414"   "6764527"   "6843822"   "6849181"   "D477659"   "D483459").PN. OR ("D538911").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:40
S10 6	28	("3499269"   "3755534"   "3920404"   "4515758"   "4519820"   "4669261"   "5009857"   "5089237"   "5138836"   "5271906").PN. OR ("5519993"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:42
S10 7	170	S102 or S103 or S104 or S105 or S106	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:44
S10 8	226168	pore or porosity and S107	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/04/24 09:45